

AMENDMENTS

CLAIMS

1. (Amended) An ink jet head, comprising a head body
5 which is provided with a plurality of nozzles and a plurality
of pressure chambers and actuators respectively corresponding
to the nozzles, and a driver IC for outputting driving
signals for driving the actuators, wherein:

the actuators are arranged on a surface of the head
body in a plurality of columns so as to form a plurality of
actuator columns;

signal input terminals of the actuators are arranged
locally in a predetermined area between the actuator columns;

the driver IC is provided with signal output
5 terminals arranged so as to respectively correspond to the
signal input terminals of the actuators; and

the driver IC is mounted on the head body by being
directly attached thereto by face down bonding so that the
signal output terminals and the signal input terminals are
20 connected to each other.

2. The ink jet head of claim 1, wherein:

each of the actuator columns extends in a direction
perpendicular to a scanning direction; and

the signal input terminals of the actuators are
25 arranged in a direction perpendicular to the scanning
direction on the surface of the head body in a central

portion thereof with respect to the scanning direction.

3. The ink jet head of claim 2, wherein:

the actuator columns include a first central actuator column and a second central actuator column adjacent to each other in a central portion of the head body with respect to the scanning direction, and one or more outer actuator column provided on an outer side of the central actuator columns with respect to the scanning direction;

the signal input terminals of the actuators are arranged between the first central actuator column and the second central actuator column; and

the actuators of each outer actuator column and the signal input terminals thereof are connected to each other by signal lines passing between actuators of one of the central actuator columns.

4. The ink jet head of claim 3,

wherein the actuators of each actuator column are arranged at regular intervals so as to be shifted from the actuators of any other actuator column in a direction perpendicular to the scanning direction.

5. (Amended) An ink jet head, comprising a head body which is provided with a plurality of nozzles and a plurality of pressure chambers and actuators respectively corresponding to the nozzles, and a driver IC for outputting driving signals for driving the actuators, wherein:

the actuators are arranged on a surface of the head

a signal input terminal of each actuator is provided on the surface of the head body near the actuator;

the driver IC is mounted on the head body by being directly attached thereto by face down bonding so that the signal output terminals and the signal input terminals are connected to each other.

the actuators form a plurality of actuator columns each including a plurality of actuators arranged at regular intervals in a direction perpendicular to the scanning direction; and

the actuators of each actuator column are arranged so as to be shifted from the actuators of any other actuator column in the direction perpendicular to the scanning direction.